**Dalisa** 

## United States Patent [19]

[54]	ELECTROPHORETIC PROJECTION DISPLAY SYSTEMS	
[75]	Inventor:	Andrew L. Dalisa, Cupertino, Calif.
[73]	Assignee:	U.S. Philips Corporation, New York, N.Y.
[21]	Appl. No.	: 63,214
[22]	Filed:	Aug. 2, 1979
[58] Field of Search		
[56] References Cited		
U.S. PATENT DOCUMENTS		
	3,684,683 8/	(1972) Ota 204/180 R   (1972) Ota 204/180 R   (1974) Mast et al. 350/361

## FOREIGN PATENT DOCUMENTS

[11]

[45]

284858 12/1979 Fed. Rep. of Germany ..... 331/94.5 52-598 4/1977 Japan ...... 331/94.5 K

4,324,456

Apr. 13, 1982

Primary Examiner-William L. Sikes Assistant Examiner-Léon Scott, Jr. Attorney, Agent, or Firm-Paul R. Miller

ABSTRACT

Projection display devices and/or remote blackboard systems are provided with electrophoretic type cells used to control the projected light source. Light is directed toward the EPID cell through a total internal reflecting type prism, and reflected light from a totally internal reflecting surface at the interface of the cell and prism is projected to a viewing device. By writing information into the EPID type cell, total internal reflection can be frustrated and an image is formed at the viewing device. Information may be written into the EPID type device by a scaning laser, or by an electrostatic writing instrument.

17 Claims, 3 Drawing Figures

